

CURRICULUM VITAE

FBI Expert Witness



Michael D. McFarlane, BS

Federal Bureau of Investigation
Digital Forensics and Analysis Section
Building 27958A, Research Drive
Quantico, VA 22135
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PROFESSIONAL EXPERIENCE

Sept 2011 - present

Electronics Engineer

Federal Bureau of Investigation
Quantico, VA

Responsibilities consist primarily of performing forensic examinations on cellular telephones, tablets and devices contained within them, such as memory cards and SIM cards and developing tools and techniques to assist with these examinations. Other responsibilities include forensic examination of personal data assistants, radio frequency scanners and jammers, fax machines, digital voice recorders, keystroke loggers, and electronic circuit analysis on devices such as bomb detonation devices and unknown electronic circuits.

Aug 2008 - Aug 2011

Chief Engineer

Robinson Engineering, Inc.
Yorktown, VA

Responsibilities included managing the implementation of engineering projects, including sales, design and implementation as well as managing 1-3 junior engineers.

Nov 2005 - Aug 2008

Control Systems Engineer

Robinson Engineering, Inc.
Yorktown, VA

Responsibilities included defining system requirements, Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA) software development, creation of documentation, and user training.

EDUCATION

Aug 1999 – May 2004

Christopher Newport University

Newport News, VA
Bachelor of Science Degree (BS)
Majors: Computer Engineering, Computer Science

FORENSIC EXAMINATION EXPERIENCE

Over 200 electronic devices have been examined in support of over 75 cases concerning since 2011.

PROFESSIONAL TRAINING

Sep 2012	Python Scripting for Cellebrite (Hamilton, NJ) – 2 days
Apr 2012	CART Tech / DeXT Training (Stafford, VA) – 9 days
Feb 2012	CART Basic Tools, (Baltimore, MD) – 3 days
Feb 2012	CART PDA /Cell Phone Forensics (Stafford, VA) – 4 days
Jan 2012	National White Collar Crime Center – GPS Interrogation (Fairmont, WV) – 1 day
Jan 2012	National White Collar Crime Center – Cell Phone Interrogation (Fairmont, WV) – 2 days

PRESENTATIONS

April 2014	Advanced SQLite Data Recovery (Ottawa, Canada)
July 2013	Instructor, CART Cell Phone/GPS Forensics (Louisville, KY)
April 2013	Instructor, CART Cell Phone/GPS Forensics (Orange, CA)

TESTIMONY

United States District Court for the Northern District of Illinois, February 2013

Lake County, Ohio Common Pleas Court, November 2012.

Lake County, Ohio Common Pleas Court, October 2012.